



PCT09

## RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/09/719,261B

TIME: 10:44:07

Input Set : A:\Mewburn-Matassa ('261) Sequence Listing.txt

Output Set: N:\CRF4\08272002\I719261B.raw

4 <110> APPLICANT: Istituto Di Ricerche Di Biologia Molecolare P. Angeletti SpA  
5 Matassa, Victor  
6 Narjes, Frank  
7 Koehler, Konrad  
8 Ontoria, Jesus  
9 Poma, Marco  
11 <120> TITLE OF INVENTION: Peptide inhibitors of hepatitis C virus NS3 protease  
13 <130> FILE REFERENCE: KMN/FP5780044  
15 <140> CURRENT APPLICATION NUMBER: 09/719,261B  
C--> 16 <141> CURRENT FILING DATE: 2002-07-02  
18 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01824  
19 <151> PRIOR FILING DATE: 1999-06-09  
21 <150> PRIOR APPLICATION NUMBER: GB 9812523.0  
22 <151> PRIOR FILING DATE: 1998-06-10  
24 <160> NUMBER OF SEQ ID NOS: 13  
26 <170> SOFTWARE: PatentIn Ver. 2.1  
29 <210> SEQ ID NO: 1  
30 <211> LENGTH: 4  
31 <212> TYPE: PRT  
32 <213> ORGANISM: Artificial Sequence  
34 <220> FEATURE:  
35 <221> NAME/KEY: SITE  
36 <222> LOCATION: (1)  
37 <223> OTHER INFORMATION: Xaa is diphenylalanine  
39 <220> FEATURE:  
40 <221> NAME/KEY: SITE  
41 <222> LOCATION: (3)  
42 <223> OTHER INFORMATION: Xaa is cyclohexylalanine  
44 <220> FEATURE:  
45 <221> NAME/KEY: SITE  
46 <222> LOCATION: (4)  
47 <223> OTHER INFORMATION: Xaa is 4,4-difluoro-2-amino butyric acid  
49 <220> FEATURE:  
50 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
51 sequence  
53 <400> SEQUENCE: 1  
54 Xaa Glu Xaa Xaa  
55 1  
64 <210> SEQ ID NO: 2  
65 <211> LENGTH: 6  
66 <212> TYPE: PRT  
67 <213> ORGANISM: Artificial Sequence  
69 <220> FEATURE:

ENTERED

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/719,261B

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Input Set : A:\Mewburn-Matassa ('261) Sequence Listing.txt

Output Set: N:\CRF4\08272002\I719261B.raw

70 <221> NAME/KEY: SITE  
71 <222> LOCATION: (6)  
72 <223> OTHER INFORMATION: Xaa is 4,4-difluoro-2-amino butyric acid  
74 <220> FEATURE:  
75 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
76 sequence  
78 <400> SEQUENCE: 2 ✓  
79 Asp Glu Met Glu Glu Xaa  
80 1 5  
83 <210> SEQ ID NO: 3  
84 <211> LENGTH: 6  
85 <212> TYPE: PRT  
86 <213> ORGANISM: Artificial Sequence  
88 <220> FEATURE:  
89 <221> NAME/KEY: SITE  
90 <222> LOCATION: (3)  
91 <223> OTHER INFORMATION: Xaa is diphenylalanine  
93 <220> FEATURE:  
94 <221> NAME/KEY: SITE  
95 <222> LOCATION: (5)  
96 <223> OTHER INFORMATION: Xaa is cyclohexylalanine  
98 <220> FEATURE:  
99 <221> NAME/KEY: SITE  
100 <222> LOCATION: (6)  
101 <223> OTHER INFORMATION: Xaa is 4,4-difluoro-2-amino butyric acid  
103 <220> FEATURE:  
104 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
105 sequence  
107 <400> SEQUENCE: 3  
108 Asp Glu Xaa Glu Xaa Xaa  
109 1 5  
112 <210> SEQ ID NO: 4  
113 <211> LENGTH: 6  
114 <212> TYPE: PRT  
115 <213> ORGANISM: Artificial Sequence  
117 <220> FEATURE:  
118 <221> NAME/KEY: SITE  
119 <222> LOCATION: (3)  
120 <223> OTHER INFORMATION: Xaa is diphenylalanine  
122 <220> FEATURE:  
123 <221> NAME/KEY: SITE  
124 <222> LOCATION: (5)  
125 <223> OTHER INFORMATION: Xaa is cyclohexylalanine  
127 <220> FEATURE:  
128 <221> NAME/KEY: SITE  
129 <222> LOCATION: (6)  
130 <223> OTHER INFORMATION: Xaa is a any amino acid  
132 <220> FEATURE:  
133 <221> NAME/KEY: MOD\_RES

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/719,261B

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Input Set : A:\Mewburn-Matassa ('261) Sequence Listing.txt

Output Set: N:\CRF4\08272002\I719261B.raw

134 <222> LOCATION: (6)  
 135 <223> OTHER INFORMATION: fluorinated hydrocarbon side chain  
 137 <220> FEATURE:  
 138 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 139 sequence  
 141 <400> SEQUENCE: 4  
 142 **Asp Glu Xaa Glu Xaa Xaa**  
 143 1 5  
 146 <210> SEQ ID NO: 5  
 147 <211> LENGTH: 6  
 148 <212> TYPE: PRT  
 149 <213> ORGANISM: Artificial Sequence  
 151 <220> FEATURE:  
 152 <221> NAME/KEY: SITE  
 153 <222> LOCATION: (6)  
 154 <223> OTHER INFORMATION: Xaa is a any amino acid  
 156 <220> FEATURE:  
 157 <221> NAME/KEY: MOD\_RES  
 158 <222> LOCATION: (6)  
 159 <223> OTHER INFORMATION: fluorinated hydrocarbon side chain  
 161 <220> FEATURE:  
 162 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 163 sequence  
 165 <400> SEQUENCE: 5  
 166 **Asp Glu Met Glu Xaa**  
 167 1 5  
 170 <210> SEQ ID NO: 6  
 171 <211> LENGTH: 5  
 172 <212> TYPE: PRT  
 173 <213> ORGANISM: Artificial Sequence  
 175 <220> FEATURE:  
 176 <221> NAME/KEY: SITE  
 177 <222> LOCATION: (1)  
 178 <223> OTHER INFORMATION: Asp as tertiary butyl ester  
 180 <220> FEATURE:  
 181 <221> NAME/KEY: SITE  
 182 <222> LOCATION: (2, 4, 5)  
 183 <223> OTHER INFORMATION: Glu as tertiary butyl ester  
 185 <220> FEATURE:  
 186 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 187 sequence  
 190 <400> SEQUENCE: 6  
 191 **Asp Glu Met Glu Glu**  
 192 1 5  
 195 <210> SEQ ID NO: 7  
 196 <211> LENGTH: 5  
 197 <212> TYPE: PRT  
 198 <213> ORGANISM: Artificial Sequence  
 200 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/09/719,261B

TIME: 10:44:07

Input Set : A:\Mewburn-Matassa ('261) Sequenc Listing.txt

Output Set: N:\CRF4\08272002\I719261B.raw

201 <221> NAME/KEY: SITE  
 202 <222> LOCATION: (1)  
 203 <223> OTHER INFORMATION: Asp as tertiary butyl ester  
 205 <220> FEATURE:  
 206 <221> NAME/KEY: SITE  
 207 <222> LOCATION: (2, 4)  
 208 <223> OTHER INFORMATION: Glu as tertiary butyl ester  
 210 <220> FEATURE:  
 211 <221> NAME/KEY: SITE  
 212 <222> LOCATION: (3)  
 213 <223> OTHER INFORMATION: Xaa is diphenylalanine  
 215 <220> FEATURE:  
 216 <221> NAME/KEY: SITE  
 217 <222> LOCATION: (5)  
 218 <223> OTHER INFORMATION: Xaa is cyclohexylalanine  
 220 <220> FEATURE:  
 221 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 222 sequence  
 224 <400> SEQUENCE: 7  
 225 Asp Glu Xaa Glu Xaa  
 226 1 5  
 229 <210> SEQ ID NO: 8  
 230 <211> LENGTH: 17  
 231 <212> TYPE: PRT  
 232 <213> ORGANISM: Artificial Sequence  
 234 <220> FEATURE:  
 235 <221> NAME/KEY: MOD\_RES  
 236 <222> LOCATION: (17)  
 237 <223> OTHER INFORMATION: AMIDATION  
 239 <220> FEATURE:  
 240 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 241 sequence  
 243 <400> SEQUENCE: 8  
 244 Lys Lys Lys Gly Ser Val Val Ile Val Gly Arg Ile Ile Leu Ser Gly  
 245 1 5 10 15  
 247 Arg  
 253 <210> SEQ ID NO: 9  
 254 <211> LENGTH: 13  
 255 <212> TYPE: PRT  
 256 <213> ORGANISM: Artificial Sequence  
 258 <220> FEATURE:  
 259 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 260 sequence  
 262 <400> SEQUENCE: 9  
 263 Asp Glu Met Glu Cys Ala Ser His Leu Pro Tyr Lys  
 264 1 5 10  
 267 <210> SEQ ID NO: 10  
 268 <211> LENGTH: 4  
 269 <212> TYPE: PRT

## RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/09/719,261B

TIME: 10:44:07

Input Set : A:\Mewburn-Matassa ('261) Sequence Listing.txt

Output Set: N:\CRF4\08272002\I719261B.raw

270 <213> ORGANISM: Artificial Sequence  
272 <220> FEATURE:  
273 <221> NAME/KEY: SITE  
274 <222> LOCATION: (1)..(3)  
275 <223> OTHER INFORMATION: Phenylalanines are linked by an ether bond  
277 <220> FEATURE:  
278 <221> NAME/KEY: SITE  
279 <222> LOCATION: (4)  
280 <223> OTHER INFORMATION: Xaa is 4,4-difluoro-2-amino butyric acid  
282 <220> FEATURE:  
283 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
284 sequence  
286 <400> SEQUENCE: 10  
W-12 287 Phe Glu Phe Xaa  
288 1  
291 <210> SEQ ID NO: 11  
292 <211> LENGTH: 6  
293 <212> TYPE: PRT  
294 <213> ORGANISM: Artificial Sequence  
296 <220> FEATURE:  
297 <221> NAME/KEY: SITE  
298 <222> LOCATION: (3)  
299 <223> OTHER INFORMATION: Xaa is diphenylalanine  
301 <220> FEATURE:  
302 <221> NAME/KEY: SITE  
303 <222> LOCATION: (5)  
304 <223> OTHER INFORMATION: Xaa is cyclohexylalanine  
306 <220> FEATURE:  
307 <221> NAME/KEY: SITE  
308 <222> LOCATION: (6)  
309 <223> OTHER INFORMATION: Xaa is 3-amino-5,5-difluoro-pentanoic acid  
311 <220> FEATURE:  
312 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
313 sequence  
316 <400> SEQUENCE: 11  
W-13 317 Asp Glu Xaa Glu Xaa Xaa  
318 1 5  
321 <210> SEQ ID NO: 12  
322 <211> LENGTH: 5  
323 <212> TYPE: PRT  
324 <213> ORGANISM: Artificial Sequence  
326 <220> FEATURE:  
327 <221> NAME/KEY: SITE  
328 <222> LOCATION: (2)  
329 <223> OTHER INFORMATION: Xaa is diphenylalanine  
331 <220> FEATURE:  
332 <221> NAME/KEY: SITE  
333 <222> LOCATION: (4)  
334 <223> OTHER INFORMATION: Xaa is cyclohexylalanine

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/719,261B

DATE: 08/27/2002  
TIME: 10:44:08

Input Set : A:\Mewburn-Matassa ('261) Sequence Listing.txt  
Output Set: N:\CRF4\08272002\I719261B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,3,4  
Seq#:2; Xaa Pos. 6  
Seq#:3; Xaa Pos. 3,5,6  
Seq#:4; Xaa Pos. 3,5,6  
Seq#:5; Xaa Pos. 6  
Seq#:7; Xaa Pos. 3,5  
Seq#:10; Xaa Pos. 4  
Seq#:11; Xaa Pos. 3,5,6  
Seq#:12; Xaa Pos. 2,4,5  
Seq#:13; Xaa Pos. 3,5,6